CONTENTS OF *FOREST AND MANAGEMENT*, VOLUME 27

VOL. 27 NO. 1 APRIL 1989

Solute concentrations, fluxes and major nutrient cycles in a mature Sitka-spruce plantation in Beddgelert Forest, North Wales
P.A. Stevens, M. Hornung and S. Hughes (Gwynedd, Great Britain) 1
Seed germination, seedling growth and biomass production of eight central American multipurpose trees under nursery conditions in Zomba, Malawi
M.R. Ngulube (Zomba, Malawi) 21
Transplanting shock in Corsican pine and Cedar of Atlas seedlings: internal water deficits, growth and root regeneration
P. Kaushal and G. Aussenac (Seichamps, France) 29
Effects of waterlogging and salinity interaction on *Nyssa aquatica* seedlings
S.R. Pezeshki, W.H. Patrick, Jr., R.D. DeLaune and E.B. Moser (Baton Rouge, LA, U.S.A.) 41
Nutrient release from silvicultural slash: leaching and decomposition of *Pinus radiata* needles
T.G. Baker, G.M. Will and G.R. Oliver (Rotorua, New Zealand) 53
Forest management in Amazonia: the need for new criteria in evaluating development options
P.M. Fearnside (Manaus-Amazonas, Brazil) 61

VOL. 27 NO. 2 MAY 1989

Selection of an efficient inoculant VA mycorrhizal fungus for leucaena
D.J. Bagyaraj, M.S. Byra Reddy and P.A. Nalini (Bangalore, India) 81
Mass and chemical composition of roots in two second-growth oak forests in eastern Tennessee
J.M. Kelly and J.D. Joslin (Oak Ridge, TN, U.S.A.) 87
Effect of aspect on poderosa pine height and diameter growth
D.L. Verbyla and R.F. Fisher (Logan, UT, U.S.A.) 93
Geographic variation and phenology of *Pinus halepensis, P. brutia* and *P. eldarica* in Israel
A. Weinstein (Bet Dagan, Israel) 99
A compatible taper/volume estimation system for *Pinus patula* at Sao Hill Forest Project, southern Tanzania
R.E. Malimbwi (Morogoro, Tanzania) and M.S. Philip (Aberdeen, Great Britain) 109
Allometric relationships for estimating above-ground biomass in six mangrove species
B.F. Clough and K. Scott (Townsville, Qld., Australia) 117
Comparisons among *Populus* clones and intensive culture conditions, using an energy conversion model
J.J. Landsberg (Lyneham, A.C.T., Australia) and L.L. Wright (Oak Ridge, TN, U.S.A.) 129
Financial sensitivity of alternative forestation incentives in Ecuador
C.J. McCormick and J.G. Laarman (Raleigh, NC, U.S.A.) 149

VOL. 27 NOS. 3, 4 **JUNE 1989**

Fine-root dynamics and biomass distribution in a *Quercus* ecosystem following harvesting
Xiwei Yin, J.A. Perry (St. Paul, MN, U.S.A.) and R.K. Dixon (Auburn, AL, U.S.A.) 159
Range-wide provenance variation in growth and nutrition of *Acacia albida* seedlings propagated in Zimbabwe 179
Biomass and net primary productivity in central Himalayan forests along an altitudinal gradient
B.S. Rana, S.P. Singh and R.P. Singh (Naini Tal, India) 199
Structural development of Scots pine stands with varying initial density: effect of pruning on branchiness of wood
S. Kellomäki (Joensuu, Finland), P. Oker-Blom (Helsinki, Finland), E. Valtoenen and H. Väisänen (Joensuu, Finland) 219
A stand density control diagram for western red cedar *(Thuja plicata)*
N.J. Smith (Vancouver, B.C., Canada) 235
A growth model for north Queensland rainforests
J.K. Vanclay (Brisbane, Qld., Australia) 245
Silviculture for water production in Jarrah forest of Western Australia: an evaluation
G.L. Stoneman (Dwellingup, W.A., Australia) and N.J. Schofield (Leederville, W.A., Austrlia) 273
Fixed-precision list-quadrat sequential sampling for point-density estimation
P.F. Newton (St. John's, Nfld., Canada) 295

Short Communication
Vegetation cover as a function of time in regenerating karri stands in southwest Western Australia
H. Borg (Leederville, W.A., Australia) 309

Book Review
Modelling trees, stands and forests 313

Author Index 315

Subject Index 317

Contents of *Forest Ecology and Management*, Volume 27 321